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1 from the time of death to the autopsy, then we would
2 have an 18. But we know that's not true --

3 Q. Okay.

4 A. -- because of postmortem
5 redistribution.

6 So what I'm trying to say is we take
7 that level of 18 in the blood, and I'll say it's three
8 times too high based on PMR and it's heart blood and
9 whatever, and that's the figure I would say.

10 That's an average. It's above an
11 average. And if we do that, we are going to cut it to
12 six.

13 So that means at the time of death we
14 have a value of six.

15 See how I'm quantifying based on the
16 actual number that I have?

17 And that six, then, would be a target
18 value that I would assume would be sometime around
19 that time of death.

20 Now we have the kinetics of digoxin
21 while she was alive. And the half-life of the drug is
22 30 hours, as -- 24 to 30 hours.

23 So if we go back to the time she started
24 getting sick, we are dealing with a half-life, so this
25 value has to be higher.

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1 How much higher? Well, if we take it as
2 one half-life, then it's 12. Is that greater than any
3 therapeutic range in the published literature? Yes.
4 Can I be certain that's that 12? No.

5 But that's the work-up that I did, and
6 that would be what I would testify to.

7 And there are assumptions in there and
8 there are caveats, and I would present that.

9 Q. But making those assumptions, and with
10 the caveats that you are going to tell me about in
11 just a minute, do you feel comfortable that that is a
12 reasonably probable opinion?

13 A. I do.

14 Q. I guess one of the primary assumptions
15 you are making is this PMR rate of what, two or three?

16 A. I'm using three, as I explained. I'm
17 using -- I would use three.

18 Q. What if it was ten?

19 A. Then all of these calculations would
20 change. If you were to be questioning me in that and
21 saying to me, Can you redo the calculations based on
22 ten, I would do the same work-up for you, and I would
23 come up with another number.

24 And I would say, Based on that
25 hypothetical, using the same -- the same information

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1 that I have, here's what the number that I would come
2 up to be.

3 Q. Okay. Where did you come up with the
4 two or the three?

5 A. Again, based upon the reference in
6 Baselt; and it comes from the Vorpahl and Coe article,
7 is what he cites.

8 Q. And the two and the three that you are
9 talking about, that's nothing that you have come up
10 with; that is a number and assumption that you are
11 taking from someone else's study or literature and
12 putting that into the equation.

13 A. Yes.

14 Q. How do you make a determination whether
15 an article that concludes a twofold number is more
16 accurate than an article that concludes a tenfold
17 number in relation to the PMR?

18 A. You read -- as a scientist, you read the
19 article, you evaluate the way that the research was
20 conducted and the conclusions that were drawn, and you
21 come up with an assessment of that article in light of
22 all the other information that you have about that
23 particular topic.

24 Q. And how many articles did you read from
25 the vast array of literature out there to come to the

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1 two or three assumption that you're plugging into your
2 calculation?

3 A. It's a small number.

4 Q. How many?

5 A. Well, I don't know what I actually have
6 here. I'll count them for you. Nine.

7 Q. And do all -- do each of those nine
8 articles have discussions in them about the PMR?

9 A. No.

10 Q. So how many of the nine really relate to
11 this two or three number?

12 A. I mean, you are really getting specific
13 now. You want me to say half of them, three, four?

14 Q. I don't want you to ballpark me on this.

15 Give me an actual number of articles
16 that -- because, I mean, isn't this the linchpin in
17 your calculation, this two or three number?

18 A. No.

19 Q. Well, let me ask you this question.

20 A. Can I answer?

21 Q. Sure, go ahead, go ahead.

22 A. Let me answer.

23 Let me take -- and I mentioned this
24 before, and even Mr. Moriarty brought it up in one of
25 the articles he presented to me.

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1 Tricyclic antidepressants are the poster
2 child for postmortem redistribution.

3 You can have levels of PMR in articles
4 or studies done on amitriptyline, for example, that go
5 from .6 to 15. But what is the average? The average
6 is three.

7 Now, that means that if we say digoxin
8 is very similar to tricyclic antidepressants, which I
9 don't think they really have a PMR as significant as
10 that; and the one reference from the Coe article says
11 about two, and I'm saying let's make it like a
12 tricyclic and let's make an average of three.

13 Are there situations where we can get up
14 to ten, as you are describing and others have?
15 Absolutely. Are they common? No.

16 And just as common we can have
17 situations where PMR is not affected to any
18 significant degree, and there's articles that will
19 come down to one or less than one. So I'm taking the
20 average.

21 There's a big range here. And I'm not
22 saying that the ranges that are published are wrong.
23 I'm just saying I'm using the average value for the
24 most common type of situations.

25 Is there a possibility that in this

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1 particular case the PMR could have been ten? I will
2 admit to that. Certainly. I have no problem with
3 that.

4 And so, you know, we can parse it out
5 into how many articles say this and how many articles
6 say that, but that's how I do my job; looking at the
7 bulk of what I know and come up with a conclusion.

8 Q. Before Mr. Miller hired you in this
9 case, did you know anything about the PMR of digoxin?

10 A. Yes.

11 Q. But you have never testified in a
12 digoxin case? You have never -- am I correct?

13 A. That's correct.

14 Q. Okay. And you hadn't analyzed digoxin
15 before this case?

16 A. I do no analysis.

17 Q. Okay.

18 A. I've seen reports that we have done for
19 digoxin at NMS. We do about 1200 different
20 compounds.

21 My job as a toxicologist here is to know
22 as much as I can about as many of those compounds as
23 possible. And for my teaching experience, I taught
24 digoxin for 23 years, so I'm familiar with digoxin.

25 I'm familiar with the pharmacology of

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1 it, I'm familiar with the toxicology of it.

2 And when I got into forensic toxicology,
3 I learned about PMR, and certainly I learned about
4 digoxin's PMR as one of the compounds that I've known
5 about.

6 Do I know everything about it? No way.

7 Do I know everything about every compound we do here?
8 No way.

9 But I do have knowledge about the
10 subject.

11 Q. Before I forget to ask you, have you
12 ever been to Oklahoma University?

13 A. No.

14 Q. Have you ever worked in Oklahoma?

15 A. No.

16 Q. Are you aware of another Barbieri that's
17 worked in Oklahoma?

18 A. No.

19 Q. Have you asked to see this patient's
20 medical records?

21 A. No, I haven't.

22 Q. Do you need to see them to be able to
23 testify in this case?

24 A. It depends what I'm asked.

25 Q. Are you qualified to render any kind of

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1 opinion about whether clinical signs or symptoms of
2 toxicity were present in a patient?

3 A. I would not go there.

4 Q. In other words, you would not offer an
5 opinion on that subject?

6 A. If the medical records show signs and
7 symptoms of toxicity, I would be -- I could render an
8 opinion that that drug has a capacity to produce those
9 toxicities; they are consistent with that compound.

10 But I would not render an opinion, for
11 example, that that drug in this particular case caused
12 that particular toxicity. That's not what I do and
13 that's not my background. I'm not a medical doctor.

14 Q. Right.

15 A. I'm not a clinical toxicologist.

16 Q. What's the -- I'm sorry.

17 A. So I have training in that -- I paused,
18 I'm sorry.

19 I have training in clinical toxicology
20 because I've taught clinical toxicology when I was in
21 medical school, but that's not my job.

22 Q. For purposes of our discussion, what's
23 the difference between a forensic toxicologist such as
24 yourself and a clinical toxicologist?

25 A. A clinical toxicologist rarely works

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1 with postmortem sampling. They are less interested in
2 postmortem levels of compounds and various body
3 tissues and fluid. That's for forensic
4 toxicologists. It's different.

5 The clinical toxicologist is more about
6 what happens to the living individual and how that
7 relates to the therapy in that individual and other
8 drug interactions.

9 Q. So hypothetically, for example, if
10 Ms. Johnson's surgeon, Dr. German, who performed the
11 surgery that she was in McBride Hospital for,
12 testifies that clinically she was not exhibiting any
13 signs or symptoms of toxicity, you would not dispute
14 that or have any basis to dispute that.

15 A. That's absolutely correct.

16 Q. If testimony like that was available
17 from health care providers that were taking care of
18 Ms. Johnson, for example, say from like April the 15th
19 and during her hospitalization on like April the 25th,
20 April the 26th, would health care provider opinions
21 that were privy to or observing her and not seeing any
22 signs or symptoms of toxicity, would testimony like
23 that in any way impact your ballpark opinion?

24 MR. MORIARTY: Objection to form.

25 THE WITNESS: I certainly would not

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1 dispute any of those things. That's all important
2 information that there was no consistency in terms of
3 what the signs and symptoms observed at a particular
4 time.

5 Now, how would it impact my opinion? My
6 opinion is, again, based upon a postmortem level with
7 some assumptions of retrograde calculations.

8 So there may be a conflict in what I
9 would end up saying based upon the signs and symptoms
10 observed when she was alive.

11 But I'm not going to -- I would not
12 change my opinion of the calculations that I described
13 just because someone else has different observations.
14 That's all part of the information of the case.

15 And I would not refute that. I would
16 not refute in any way what a medical professional
17 observed for a patient.

18 BY MR. MCPHAIL:

19 Q. Is there any way to factor clinical
20 information into this back calculating that you do?

21 A. No.

22 Q. So although there are assumptions and
23 caveats in your back calculation, it doesn't in any
24 way take into account the in-the-trenches clinical
25 information that the nurses and doctors and folks

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1 taking care of Ms. Johnson have available or had
2 available to them.

3 A. No. The calculations I described would
4 not impact on that. But in the end, in terms of
5 evaluating what I came up with versus what they see,
6 then obviously there is an issue.

7 But I would not opine to, you know, any
8 kind of discrepancy between those issues.

9 If asked, I would say, well, it's not
10 consistent then; their observations are not consistent
11 with my calculations.

12 And let the trier evaluate that, let the
13 jury evaluate that.

14 Q. Would a clinical toxicologist be in a
15 better position than you to render this -- or to
16 address this issue in this particular case?

17 A. Which issue are you speaking of?

18 Q. Well, we have been talking about how
19 clinical signs and symptoms exist in relation to
20 toxicity cases, or they can.

21 You understand that to be correct?

22 A. Yes.

23 Q. Okay. If this is going to boil down to
24 an issue of was she toxic or not, then you are not
25 equipped to in any way evaluate the clinical side of

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1 that, and, in fact, the clinical issue; that doesn't
2 in any way even enter into the foundation for your
3 opinion, correct?

4 MR. MILLER: Object to form.

5 THE WITNESS: In a way you are correct.

6 As long as a patient is alive and being
7 treated in any circumstances, and I've always done
8 this in the past, if there's any issue in terms of
9 patient treatment, observations by medical
10 professionals, I always refer them to either a
11 clinical toxicologist or the treating M.D.

12 I would never opine to those issues.

13 And so you are right; my calculations
14 are based upon a postmortem test result and going back
15 to postmortem, and then making assumptions in terms of
16 half-life and et cetera in this particular patient.

17 So, yes, it's a long way of saying I
18 tend to agree with you.

19 BY MR. MCPHAIL:

20 Q. This is -- the issue of toxicity, it's
21 the elephant in the room, isn't it? I mean, that's
22 what this case is about as you understand it. Is that
23 correct?

24 MR. MILLER: Object to form.

25 THE WITNESS: From what I'm gathering,

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1 yes.

2 BY MR. MCPHAIL:

3 Q. Okay. And you weren't in the room at
4 the time that she was at McBride Hospital, obviously,
5 correct?

6 A. Obviously not.

7 Q. And essentially what you have got is a
8 blood sample and a vitreous sample that you have
9 analyzed, and are now trying to back calculate into
10 what was going on in the room that you were not in.
11 Is that correct?

12 A. I didn't get into the hospital here.

13 I mean, I'm trying to back calculate in
14 terms of theory based upon the kinetics of the drug,
15 some postmortem issues, to try to give some kind of a
16 picture to where we might be or where she might have
17 been in terms of that.

18 Q. Do you understand when she was in
19 McBride Hospital?

20 A. I don't have that, no.

21 My understanding, if I could just add,
22 that this all happened after she left the hospital.
23 That was -- this last dose -- my understanding from
24 discussion was this last dose was taken, you know, and
25 then she was at home.

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1 That's what I was made to understand.

2 And if that's incorrect, that's incorrect.

3 But that still doesn't impact on the
4 estimates that I'm trying draw here, again, based upon
5 a postmortem value that's taken after, during
6 autopsy.

7 Q. You said something in one of your
8 responses to one of Mr. Moriarty's question about
9 "Someone more versed in digoxin testing than I am"?

10 A. Well, I think the question was asked
11 would any forensic toxicologist come to the same
12 conclusions or do the same thing, I think that was the
13 question.

14 And I said certainly I'm not the world's
15 expert on digoxin or postmortem redistribution; and
16 someone who is more versed in that would, you know,
17 may be in a better position or come up with different
18 conclusions.

19 I'm willing to admit to that.

20 Q. How many times have you in your
21 professional experience done what you are doing today,
22 which is look at data and back calculate with regard
23 to a digoxin level?

24 A. This is the first case that I had to do
25 an estimate like this.

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1 Q. So this would be the only time you have
2 ever done it in your professional career.

3 A. Right. I had another digoxin case that
4 I worked on an expert report, or in the preparation of
5 a report where we talked about some of these kind of
6 issues, but no final report was done. So I worked on
7 the case.

8 So this is the second digoxin case, but
9 this is the first time that I have done this type of
10 calculation based on the data that I have.

11 Q. Well, so if we went to someone that had
12 even looked at this issue twice, we would be finding
13 somebody that was more versed in digoxin testing than
14 you are.

15 A. How would you know that?

16 Q. From what you are just telling me.

17 A. All I'm saying is, you know, I have had
18 experience with teaching digoxin, knowing about the
19 compound for my whole career, 35 years.

20 Q. Okay.

21 A. And just because someone has taken --
22 you know, has done two cases, you know, they may not
23 have the knowledge base that I have. So I can't
24 answer that question.

25 All I'm saying if someone knows more

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1 about the compound and knows more about the issues,
2 then certainly I would be willing to say, you know,
3 listen to them, don't listen to me.

4 Q. Okay. It's just the back calculation
5 formulas that you are doing in this case that you have
6 never done before, correct?

7 A. Well, for this compound.

8 Q. Right.

9 A. I've done back calculations for many
10 other compounds.

11 Q. For digoxin.

12 A. Yes, of course. But the principles are
13 the same.

14 Q. Let me rephrase my question just so --
15 it's kind of jumbled up there.

16 It's just the back calculation in
17 relation to digoxin in this particular case that you
18 have never done before. Is that correct?

19 A. Agreed, correct.

20 Q. Is there anything that you can look at
21 in your litigation packet, or in any of the data that
22 NMS has produced, for you to be able to comment
23 whether there was an acute process going on or a
24 chronic process going on in Ms. Johnson?

25 A. No. We just have analytical data, and I

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1 have no supplemental background data about the case in
2 the files that I reviewed.

3 Q. Okay. But, I mean, you understand my
4 question?

5 A. I do.

6 Q. And that's something that you comment on
7 in a lot of cases, in terms of whether you have an
8 acute ingestion of something or a chronic ingestion of
9 some drug? That's a common issue for you to deal with
10 in a lot of cases, isn't it?

11 A. It's a common issue. And sometimes you
12 can answer that question if you have a metabolite that
13 you can measure.

14 For example, knowing that a certain
15 compound produced a certain level of metabolism, okay,
16 on an either acute dosing and chronic dosing, and the
17 levels of those two compound are completely whack,
18 you can make an opinion that this was an acute
19 situation versus a chronic.

20 Here we have one compound, there's no
21 metabolite to look at. There's no way to know this.

22 All I can tell you is, you know, we know
23 that this individual in two of her samples had digoxin
24 in certain concentrations, and then you can work back
25 the way it did.

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1 Q. Do you know anything about Ms. Johnson's
2 prescription or the pills that she was taking?

3 A. No, not at all.

4 Q. Is there anything that Dr. Kevin Ballard
5 can tell us about the blood sample or any of the data
6 in that litigation pack that you couldn't tell us?

7 A. Well, at the present time, no.

8 Dr. Ballard passed away shortly after.

9 Q. I'm sorry, I didn't know that. I was
10 not aware of that.

11 A. That's okay. He would have been very
12 helpful in terms of the analytical data.

13 Q. Well, the only reason I ask is I think
14 you indicated he was the final reviewer of that
15 sample. And that's why I was wondering if he would
16 have had an additional or a different insight than you
17 would have had.

18 A. I understand, he did the final.

19 Actually, he developed both of these
20 methods, or the methods for both these cases for
21 digoxin measurement by NMS. And he did review the
22 blood work prior to the report going out.

23 Q. Are you familiar with NMS's Website,
24 Doctor?

25 A. Somewhat. I don't look at it on a

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1 routine basis.

2 Q. Are you familiar with NMS's advertising
3 of their expert witness services?

4 A. I have read it one time.

5 Q. Have you ever seen this ad?

6 A. No, I haven't.

7 MR. MILLER: It doesn't look like you.

8 BY MR. McPHAIL:

9 Q. Have you ever seen this ad?

10 A. Yes.

11 Q. It's, I guess, similar to the one that's
12 on the wall up there in our room here, isn't it?

13 A. That's one of the things that our
14 marketing department came up with.

15 Q. Other than the Website, where do these
16 ads like this one, where do they get printed? What
17 trade journals do they go out in, do you have any
18 idea?

19 A. I don't. I don't have any. So that
20 would be for our marketing department to answer that.

21 Q. Would that be something that Shelly
22 Carolan, your marketing and business development vice
23 president, would know about?

24 A. Yes, she would.

25 Q. Why does NMS have a sales and marketing

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1 vice president?

2 A. That's the way the executives of the
3 company decided to set up the company.

4 We're a for-profit organization, we are
5 a privately owned company. We need profit in order to
6 continue to hire new people, support new equipment and
7 technologies. So we have to, you know, sell our
8 services.

9 Q. Are you offering Mr. Miller your basic,
10 expanded or expert services?

11 A. Those are lab designations for testing.
12 There are different panels of autopsy panels: basic,
13 expanded and expert.

14 Q. So that doesn't apply to this --

15 A. No.

16 Q. -- Ms. Johnson's testing or this
17 lawsuit?

18 A. No. This is part of our expert services
19 division, totally different.

20 And those services are different levels
21 of sophistication and complexity in terms of the work
22 that we do analytically.

23 Q. What is TNH Enterprises?

24 A. I don't know. Can you help me with what
25 TNH would stand for? Can you show me a document that

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1 may help me?

2 Q. (Handing document.)

3 A. I've never seen this. I have no idea.

4 I see my name is on there, the bio, but I have no
5 idea. I have never contacted and I have never spoken
6 to anybody from that organization.

7 Q. Just real quickly, do you recognize any
8 of these names?

9 A. John DiGregorio is the medical director,
10 I have known John for 35 years. Of course, there's my
11 name here. I don't know him, don't know him. No,
12 just John.

13 Q. Okay. Mr. Moriarty asked you some
14 questions about the September 22nd telephone call that
15 you had with Mr. Miller and Mr. Deligans?

16 A. Yes.

17 Q. One of the things that I think you told
18 me you said that from out of that telephone call you
19 received, I think your words were two charges: one to
20 proceed with the investigation of digoxin, and the
21 second one was to see if you could find a vitreous
22 what?

23 A. Some correlation between the vitreous
24 digoxin level and some blood level, whether it be
25 postmortem blood, antemortem serum, something like

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1 that.

2 Some kind of an association that I could
3 say there's a factor that the person might use for
4 that. And I could not.

5 Q. All right. How much time did you spend
6 proceeding with the investigation of digoxin?

7 A. For this case?

8 Q. Yeah. I'm talking about what you
9 understood your charge to be from the September 22nd
10 telephone conference with Mr. Deligans and
11 Mr. Miller.

12 A. Up to and not including yesterday's
13 meeting, I put in about six and a half hours on the
14 investigation.

15 Q. Can you describe -- I'm sorry. I keep
16 cutting you off.

17 A. I was saying the investigation in terms
18 of what I was asked to do.

19 Q. Okay. Did you say six and a half hours?

20 A. Yes.

21 Q. Can you tell me or break down the six
22 and a half hours in terms of what you did to
23 investigate digoxin?

24 A. Sure. The first 30 minutes was our
25 telephone discussion. I spent two and a half hours

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1 doing literature research and review.

2 I spent about two hours reading the
3 papers that I've gotten and rereading the papers and
4 making notes, highlighting notes in the papers. And
5 then I spent another hour and a half going through the
6 litigation package.

7 After I got that down, I went back and
8 looked at the papers again to try to get some kind of
9 an estimate of levels based upon the vitreous number
10 that we have.

11 So that's the breakdown that I have on
12 my notation sheet.

13 Q. And the two and a half hours of medical
14 literature research that you did produced the nine
15 papers here in front of us?

16 A. Yeah. It's not complete. There were a
17 lot of papers that the titles didn't impress me, it
18 was not what I was looking for.

19 So I tried to kind of boil it down into
20 some reasonable small group so I didn't have an
21 extensive volume of literature that I felt was
22 unnecessary.

23 Q. During your medical research, did you
24 locate any articles that didn't necessarily support
25 your position?

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1 A. No, I did not.

2 Q. Did you consult the NMS electronic
3 library that you referenced earlier to see what was
4 saved there in relation to digoxin?

5 A. I did, and the postmortem papers -- this
6 was in the postmortem end.

7 Q. The Vorpahl article?

8 A. The Vorpahl and Coe article, which was
9 there. And there was also a general article about
10 postmortem distribution that did not have anything to
11 do with digoxin, although it was included in the
12 digoxin file.

13 So there was nothing other than this
14 paper and it was the same. Everything else came off
15 of the Internet search that I did.

16 Q. And then you said you had a paper file
17 of your own?

18 A. Yes. And there were two papers. It was
19 the Vorpahl and Coe article that I had in my paper
20 file. I had an old copy of the Baselt from a previous
21 edition.

22 And I had the Holmgren article that, you
23 know, talked about -- I had it in the digoxin file,
24 but it doesn't even talk about digoxin. It was just
25 there for general postmortem information.

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1 Q. What do you charge for your time,
2 Doctor?

3 A. I don't charge. The company sets a fee
4 of 350 an hour for me.

5 Q. What does the for-profit company that
6 you work for charge for your time?

7 A. \$350 an hour.

8 Q. Okay. Is this -- the testifying, the
9 expert testimony or the expert services part of this,
10 is this something that you do by -- simply because of
11 your employment here at NMS?

12 A. Yes. That's part of my job, to support
13 that part of the company.

14 Q. How many other persons within NMS have
15 as part of their job to offer expert testimony and
16 give depositions like this?

17 A. Well, there's all the toxicologists.
18 There are seven of us in the toxicology group who have
19 testified and will support this. Some do it more than
20 others.

21 We have our client -- our expert
22 services folks, our records custodians that do testify
23 on records, for example, certifying records and
24 things.

25 Occasionally lab people are asked to

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1 testify about what they did in a particular case. For
2 example, if you wanted somebody who did this work to
3 testify, they would do that.

4 So the main bulk is the toxicology
5 group, but other people in the company have been
6 involved in the expert services as well.

7 And then, of course, the people in the
8 criminalistics lab, you know, do their things in terms
9 of either DNA or product integrity work or pills,
10 patterns and potions from police searches and things.

11 Q. How much did the vitreous and blood
12 sample testing that was done back in 2008, how much
13 did that cost?

14 A. I don't have the figures. I don't do
15 any billing, and we don't put that in here.

16 If you wanted that information, we could
17 provide that to you. But I have no knowledge of what
18 it costs.

19 Q. In terms of the analysis that was done,
20 you don't even know a ballpark of what that would
21 cost?

22 A. Again, if you were to say how much does
23 cocaine in blood cost, I can tell you that because I
24 see it every day.

25 This is not a common analysis, so it's

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1 not something that I would focus on. Again, we have
2 2500 tests.

3 Q. Okay. It might be different because
4 it's digoxin that's involved.

5 Is that what you are telling me?

6 A. Yes.

7 Q. Okay. Do you have -- this is kind of my
8 final kitchen-sink wrap-up question.

9 You have heard many of those if you have
10 testified, haven't you?

11 A. This is the one before the next one and
12 the next one and the next one.

13 Q. Well, it depends on what your answer
14 is.

15 All I want to know is if you have any
16 other ballpark opinions, or opinions you consider to
17 have enough reliability that you would offer to the
18 jury in this case, other than your back calculation
19 opinion that we have already discussed?

20 A. No. I think -- I mean, through the
21 questioning and the answering I have had today, I
22 think I have expressed everything that I would say to
23 a jury if asked to attend.

24 Unless there was a different question
25 that came up, and if I could provide the answer, I

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1 would, and if I couldn't, I would say so.

2 So as I sit here today, I think I've
3 covered everything that I would testify to.

4 Q. Well, if you come up with another
5 opinion or medical literature or some other support
6 outside your litigation packet that in any way
7 supports your opinion, would you please advise
8 Mr. Miller or one of us so that we could ask you
9 questions about that before trial?

10 A. I will certainly do that.

11 MR. MCPHAIL: Thank you, Doctor.

12 THE WITNESS: You're welcome.

13 MS. AHERN: I do have some questions,
14 but if you wouldn't mind, I'd like to take a break
15 real quick.

16 (A recess is held.)

17 EXAMINATION

18 BY MS. AHERN:

19 Q. Hi.

20 A. Hello.

21 Q. Dr. Barbieri, we met before. I'm Hunter
22 Ahern, and I have a few more questions for you.

23 A. Sure.

24 Q. I just want to sort of clarify a little
25 bit what your role is, what your role has been in the

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1 testing of these samples that were given to you.

2 My understanding is that NMS Laboratory
3 provides a number of services to people, a number of
4 forensic services, including toxicology services,
5 correct?

6 A. Yes.

7 Q. And you have a number of packages that
8 you also provide, you have a basic, an expanded and an
9 expert panel of toxicology testing that you can
10 provide to people. Is that correct?

11 A. Yes. Those are autopsy panels of
12 various complexities.

13 Q. Okay. You were the expert -- I was just
14 looking at your Website.

15 Under the expert panel, it says it's the
16 largest current library of the most relevant drugs,
17 metabolites, poisons and toxins for comprehensive
18 death investigation, correct?

19 A. Yes.

20 Q. You were not asked to do a comprehensive
21 death investigation, correct?

22 A. No. These were focused tests for one
23 compound.

24 Q. How often are you asked to do tests for
25 a single compound?

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1 A. Quite often.

2 Q. And for what purpose usually?

3 A. We don't know that.

4 Q. In this case would it be litigation?

5 A. Well, when we received the sample, we
6 didn't know that. We know that now. But at the time
7 we received the samples, we didn't know that.

8 We have a client who contacted us and
9 sent us a specimen, and we did what we were asked to
10 do.

11 Q. Okay. So the only thing that you can
12 opine on in this particular case are digoxin levels,
13 correct?

14 A. Yes.

15 Q. You testified that you were not a
16 medical doctor?

17 A. That's correct.

18 Q. You are not a clinical pathologist or a
19 clinical toxicologist?

20 A. That's correct.

21 Q. You have never treated patients,
22 correct?

23 A. As a pharmacist, but not as an M.D.

24 Q. Have you ever treated patients or
25 diagnosed patients with digoxin toxicity?

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1 A. No.

2 Q. So is it fair to say that your
3 experience with digoxin as a medication is that of a
4 laboratory researcher?

5 A. And as a pharmacologist and teaching.

6 Q. Teaching?

7 A. Yes.

8 Q. But not in patient care.

9 A. Not in patient care, no.

10 Q. And not in diagnosing clinical signs and
11 symptoms of digoxin toxicity.

12 A. No.

13 Q. And this number that we calculated back,
14 this 12 nanogram per mL that you are estimating based
15 on the postmortem blood sample that was taken for
16 Ms. Johnson, can you tell me -- I'm going to go
17 through the assumptions that you are making for this
18 particular level, correct?

19 Sorry, strike that.

20 Is it correct that you have made a
21 number of assumptions in order to get to 12 nanograms
22 per mL?

23 A. I did.

24 Q. The first assumption would be that her
25 last dose was taken on April 26 of 2008, correct?

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1 A. Yes.

2 Q. And that's a significant assumption,
3 isn't it?

4 A. Well, that's what was represented to
5 me. So I'm really not assuming that; I was told that.

6 Q. And I understand that.

7 But it would be -- your estimate would
8 be significantly different or it could be
9 significantly different if you were to find out that
10 her last dose was actually taken on April 27th?

11 A. It would make a difference, yes.

12 Q. So the information that you were given
13 by plaintiff's counsel, that her last dose was taken
14 on April 26th, is a significant basis for your
15 12-nanogram-per-ML estimate, correct?

16 A. Yes.

17 Q. Another assumption that you are making
18 is that she had normal renal function?

19 A. Yes.

20 Q. Pharmacokinetics of digoxin are greatly
21 affected by the status of renal function in an
22 individual, correct?

23 A. They are.

24 Q. And why is that?

25 A. Because digoxin is mainly secreted

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1 unchanged primarily in the body through the kidney.

2 Q. So even low levels of renal
3 insufficiency can greatly affect serum digoxin
4 concentrations in an individual, correct?

5 A. Well, I don't know significantly and
6 greatly. I know they will affect. How high, I can't
7 answer that.

8 Q. And you testified that you were not
9 given any medical records to review for Martha Bea
10 Johnson?

11 A. That's correct.

12 Q. And you did not ask to review any
13 medical records for Martha Bea Johnson?

14 A. That's correct.

15 Q. So you have no information about what
16 other drugs Martha was taking?

17 A. That is correct.

18 Q. Or how many other drugs she was taking?

19 A. That's correct.

20 Q. And you are aware that digoxin is a drug
21 that interacts with a number of other drugs, correct?

22 A. Yes.

23 Q. And that a number of other drugs can
24 affect levels of digoxin in the serum?

25 A. There are certain drugs, yes.

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1 Q. Would that be both ante and postmortem
2 potentially?

3 A. Well, the drug interactions in terms of
4 digoxin would be antemortem in terms of either
5 metabolism or effective secretion. It would not
6 change postmortem levels.

7 Q. Sorry, I meant -- it was a bad
8 question.

9 What I meant was, the interactions
10 antemortem would affect what you see postmortem
11 potentially.

12 A. Yes, of course.

13 Q. We are also making the assumption that
14 the postmortem to antemortem ratio was three and not
15 something higher like ten, that she was not an
16 outlier.

17 A. I made that assumption, yes.

18 Q. And if she, for instance, was an
19 outlier, was on the extreme end of that, and the
20 postmortem to antemortem ratio was something like ten,
21 that would significantly affect the calculation that
22 you made antemortem, correct?

23 A. Yes. And as I stated, I would
24 recalculate based upon that information given to me.

25 Q. So, so far the assumptions we are making

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1 are based on the information you have.

2 We are assuming that her last dose was
3 take on the 26th of April, 2008.

4 A. Yes.

5 Q. We are assuming that there were no other
6 significant drug interactions antemortem that might
7 have affected her serum digoxin concentration?

8 A. Yes.

9 Q. We are assuming that she had normal
10 renal function.

11 A. Yes.

12 Q. We are assuming that the postmortem to
13 antemortem ratio was somewhere around three, not
14 higher.

15 A. Yes.

16 Q. We are also assuming that her symptoms
17 of diarrhea and stomach cramps were not -- were
18 attributed to high levels of digoxin.

19 A. No, I didn't make that assumption.

20 Q. So I just want to make sure, though,
21 that you had mentioned that what you could say is that
22 you believe her antemortem levels on the 26th would
23 have been high, right around the same time she was
24 exhibiting symptoms of diarrhea and stomach cramps.

25 A. Yes. And the one assumption that you

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1 didn't include was I assumed a half-life of about 24
2 hours, which would fit into the pattern here of the
3 drug; which came about when we estimated the peak
4 level based upon that dosing.

5 Q. Correct.

6 A. Not the symptomatology necessarily.

7 Q. And thank you.

8 And the half-life, of course, would be
9 affected by her renal function and a number of other
10 things as well.

11 A. It would.

12 Q. Okay. So in other words, if her renal
13 function, if she was -- if she had some renal
14 insufficiency due to dehydration or something else,
15 that would have prolonged the period of time that it
16 took to clear digoxin.

17 A. It would.

18 Q. Doctor, I just want to make sure that
19 when you said that you could testify that her levels
20 on the 26th were, in your opinion, high or elevated
21 beyond the normal therapeutic range, you are not also
22 going to testify that that somehow correlated with any
23 clinical symptoms that you could attribute to
24 toxicity.

25 A. No.

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1 Q. Because you are not a medical doctor.

2 A. Right.

3 Q. And you would defer to a medical doctor,
4 a cardiologist, and treating physicians to make that
5 determination.

6 A. I would.

7 Q. Can I ask you, are you aware of a
8 particular serum digoxin concentration that you would
9 expect to see cardiac symptoms with?

10 A. Cardiac symptoms can occur even at low
11 therapeutic levels, down, let's say, one nanogram per
12 mL; there's certain patients who would exhibit
13 toxicity at that low therapeutic level.

14 Q. And what sorts of cardiac symptoms would
15 you expect to see in a patient exhibiting toxicity?

16 A. You would see an increase in heart
17 rate. You would see occasionally a premature
18 ventricular contraction or more than the normal
19 premature ventricular contraction. Things that
20 digoxin would cause.

21 Q. And would those sorts of things usually
22 be picked up by a treating physician, especially in
23 this situation where the patient is actually
24 hospitalized for surgery?

25 A. On the electrocardiogram?

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1 Q. Yes.

2 A. It would be.

3 Q. Okay. And would you expect to see
4 cardiac symptoms in a patient exhibiting a
5 12-nanogram-per-mL blood level?

6 A. I'm sorry. Would I expect to see those
7 symptoms?

8 Q. Yes, sir.

9 A. I would.

10 Q. Okay. Do you have any evidence to
11 suggest that these symptoms -- that Martha Bea Johnson
12 had any cardiac symptoms on the 26th of April, 2008?

13 A. I have no information of that.

14 MS. AHERN: I think, sir, that is all
15 that I have at this time. I think that Mr. Moriarty
16 may have a few follow-up questions. Thank you very
17 much.

18 THE WITNESS: Thank you.

19 (Discussion off the record.)

20 EXAMINATION

21 BY MR. MORIARTY:

22 Q. I just need to spend a few minutes
23 mopping up a few loose ends, okay?

24 A. Sure.

25 Q. If I understand what you are saying, you

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1 can't testify to a reasonable degree of probability or
2 certainty that the SDC that the time Mrs. Johnson
3 actually died was three or four or 2.5 or 1.5, or any
4 other specific number, correct?

5 A. You're correct.

6 Q. At the time she died her serum digoxin
7 concentration would be speculative, correct?

8 A. Yes, it would be.

9 Q. And in this back calculation that you
10 have done with your estimates, essentially you are not
11 saying to a reasonable probability that the number on
12 the afternoon of the 26th was 10, 11, 12, correct?

13 A. That's right, I said that.

14 Q. Okay. And you are speculating about
15 what the number would be the afternoon of the 26th,
16 correct?

17 A. Well --

18 Q. The day supposedly of her last dose.

19 A. I don't like the word "speculating."
20 I'm trying to estimate from the factual data that I
21 have.

22 So if you want to call it speculation,
23 that's your word. I wouldn't use that word.

24 Q. So the estimate is a range, correct?

25 A. It could be a range, yes.

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1 Q. And then that estimate is based on the
2 assumptions that Ms. Ahern just went through, correct?

3 A. Yes, that's correct.

4 Q. And among the assumptions, when you say
5 a PMR of only three, you are sort of assuming a PMR of
6 three because it's based on one article that you
7 looked at, which is based on another article that they
8 looked at and then cited, correct?

9 A. Yes.

10 Q. And so there are number of assumptions
11 in those articles that lead to the average of two or
12 three that you then assumed, right?

13 A. Well, I don't think they are really
14 assumptions. I mean, the article, that Vorpahl and
15 Coe article has objective data, and the authors used
16 that objective data to come to a conclusion.

17 And so by the mathematical calculation
18 they came up with a number.

19 Q. Sure.

20 But just, for example, I think we
21 pointed out earlier that there are no reports in the
22 Vorpahl article of blood draws after 22.5 hours,
23 correct?

24 A. That's correct.

25 Q. All right. So when they reached their

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1 average and their mean, they didn't include blood
2 draws out at 44 hours like we have here.

3 A. You're absolutely correct.

4 Q. So that is in some way an assumption
5 upon which your assumptions are built.

6 A. I understand your point, yes.

7 Q. Okay, good.

8 And you only -- in your back calculation
9 you only took into account the heart blood sample,
10 correct?

11 A. That's right.

12 Q. All right. What are we doing with the
13 vitreous sample?

14 A. What are we doing with it? It's -- the
15 compound is present in the vitreous sample.

16 Q. So she was obviously taking the drug.

17 A. Okay.

18 Q. Because she was prescribed the drug.

19 A. And what would anybody want me to do
20 with it. I was asked to try to do a calculation of
21 the blood concentration based on that.

22 And I said the variability was too
23 great, and I could not come up with any conclusion
24 about that.

25 Now, again, we can speculate about that,

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1 but I chose not to do that.

2 Q. But why didn't you use the vitreous
3 level which was within the therapeutic range to do
4 your calculations as opposed to the blood level that
5 was nine times the therapeutic range?

6 A. First of all, the vitreous is not a
7 therapeutic range. The number is within a serum
8 therapeutic range certainly.

9 But knowing that the vitreous levels
10 change over time, and, again, without having, you
11 know, hard factual data about, you know, what happened
12 with her treatment and et cetera, there were even more
13 assumptions if I try to do that calculation.

14 So I thought that was even more
15 speculative than anything I would do with the blood.
16 At least I had the same matrix that I'm working with
17 rather than trying to cross tissue lines.

18 Q. But at least there was some peer-
19 reviewed literature saying that vitreous is more
20 accurate than postmortem blood, correct?

21 A. There is. And I came up with, again,
22 based upon what's cited again from Vorpahl in terms of
23 average numbers of the vitreous levels that they had.

24 I could come up with a number, as I did
25 with the blood sample, but I think that that is less

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1 reliable than blood itself.

2 Q. I may have missed this one, Ms. Ahern
3 was questioning you.

4 But was one of your assumptions that
5 Mrs. Johnson's electrolytes were normal?

6 A. That would be a part of it.

7 Q. Did Mr. Miller or Mr. Deligans ask you
8 to assume that her electrolytes were normal?

9 A. They asked me to do no assumptions at
10 all.

11 Q. Did they tell you what her illness was
12 on the day of the 26th?

13 A. No.

14 Q. So whatever that illness was, you don't
15 have any idea of how often she may have had that
16 illness or condition prior to the 26th.

17 A. That's correct.

18 Q. Do you know anything from the reported
19 medical literature about what the majority of people's
20 response would be to a serum digoxin concentration of
21 12?

22 A. Literature value or literature
23 information?

24 Q. Yes, sir.

25 A. Most people would die from a serum

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1 concentration of 12.

2 Q. Okay. Close in time to when it was 12,
3 right?

4 A. Yes.

5 Q. Not close in time to when it had dropped
6 to six, five, four, three, two, one, right?

7 A. Yes.

8 Q. Do you know any literature that supports
9 the conclusion that you just mentioned?

10 A. Well, I'm sure -- I don't know of any
11 specific things I can cite. Again, it's general
12 knowledge that I've obtained over the years from
13 reading about the compound and as I taught about the
14 compound.

15 Q. So the vast majority of people who had a
16 serum digoxin concentration of 12 would have a lot
17 more signs and symptoms than diarrhea or nausea,
18 correct?

19 A. I would say that would be absolutely
20 correct.

21 Q. And if a patient is significantly
22 bradycardic or significantly tachycardic, they can
23 generally sense that in one way or another or exhibit
24 signs or symptoms consistent with that, correct?

25 A. People have described feeling that their

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1 heart has changed in some way.

2 Q. In tachycardia they might say my heart
3 is racing or it's palpitating or something, right?

4 A. Yes.

5 Q. Are you familiar with a compound called
6 Senokot?

7 A. Yes. Senokot is a laxative.

8 Q. It could cause diarrhea or GI upset?

9 A. It could.

10 Q. Did you ever discuss this case and your
11 opinions with anyone else at NMS?

12 A. No.

13 Q. And your calculation under these
14 circumstances and assumptions is a theory, correct?

15 A. Well, it's theoretical.

16 Q. Other than the assumed PMR level of two
17 or three, is there anything in the published peer-
18 reviewed medical literature that supports your back
19 calculation?

20 A. The only other part of the back
21 calculation that really is included is the elimination
22 half-life, the average elimination half-life that I've
23 used for the case, as the time line was presented.

24 Q. Okay. Well, if you assumed a different
25 number, such as nine or ten, what would the serum

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1 digoxin concentration have been under your back
2 calculation?

3 A. I'm sorry. Nine or ten what?

4 Q. A PMR level of nine or ten instead of
5 two or three.

6 A. Okay, let me walk this through with
7 you.

8 Let's say we had -- we have a postmortem
9 measured value of 18 in her blood. We take a PMR
10 value of ten, so that reduces it to 1.8 at
11 approximately the time of death.

12 And, again, taking one half-life, the
13 estimated calculation would be double that or 3.6
14 nanograms per mL.

15 Q. Are you talking about a time of death or
16 at this --

17 A. At approximately 3:00 p.m.

18 Q. On the 26th?

19 A. On the 26th.

20 Q. I just have to ask you about a couple of
21 articles, and then I'll be done.

22 Okay, this is an article by Cook and
23 Braithwaite in the Journal of Clinical Pathology in
24 the year 2000.

25 First of all, do you ever read or review

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1 articles from the Journal of Clinical Pathology?

2 A. No, very rarely.

3 Q. All right. Have you ever read this
4 article?

5 A. I have not seen this, no.

6 Q. At page 282, in the right-hand column,
7 first full paragraph, it says: Often pathologists or
8 toxicologists are requested to estimate the amount of
9 drug present at the time of death or the number of
10 tablets consumed.

11 Did I read that correctly?

12 A. Yes.

13 Q. This assumes that the drug concentration
14 found at postmortem examination is a reliable estimate
15 of that present at the time of death.

16 Did I read that correctly?

17 A. You did.

18 Q. Then it say: There is a lack of
19 evidence that such an extrapolation is possible.

20 Do you agree with that statement?

21 A. In general, yes.

22 Q. All right. And let's go to 284, two
23 pages later.

24 Under Discussion: These six cases
25 illustrate that it can be dangerous to attempt to

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1 relate a drug concentration found at postmortem
2 examination to the antemortem circulating
3 concentration or to the antemortem dose received.

4 Do you agree with that?

5 A. I can't agree or disagree, because I
6 haven't read all the article and the information that
7 they provided. So they are making a conclusion based
8 on something I haven't looked at.

9 Q. Okay. Next column -- I'm sorry, same
10 column, last full paragraph. It says in the second --
11 third sentence: The use of premortem/antemortem
12 ratios or back extrapolation from a postmortem
13 concentration is not recommended.

14 Do you agree with that?

15 A. Again, in general. We have talked about
16 this before. I said I agree with that, but there are
17 certain situations, as I explained, that I would not
18 agree with that.

19 Q. All right.

20 A. Okay.

21 Q. Next column, last paragraph: Our study
22 shows that a high degree of error can arise from
23 attempting to predict antemortem concentrations from
24 postmortem concentrations, and emphasizes the need for
25 continued research into the area of pathology

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1 practice.

2 Did I read that correctly?

3 A. You did.

4 Q. The next sentence says: In the absence
5 of such data, estimates of circulating drug
6 concentrations during life should not be made.

7 Do you agree with that?

8 A. No, I don't.

9 Q. This is an article in 2003 from the
10 Journal of Analytical Toxicology.

11 Do you see that?

12 A. Yes.

13 Q. In 2003 were you a reviewer for the
14 Journal of Analytical Toxicology?

15 A. Yes, I was.

16 Q. Do you know if you were a reviewer for
17 this specific article?

18 A. I was not.

19 Q. Have you read this article?

20 A. I have.

21 Q. Do you know anything about these
22 authors?

23 A. No, not specifically.

24 Q. You have published articles in the
25 Journal of Analytical Toxicology, haven't you?

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1 A. I have.

2 Q. So I assume you consider it to be a
3 reliable source?

4 A. It's a very good journal.

5 Q. At page 533, under Introduction, they
6 are talking about evaluating blood concentrations in
7 the living based on various pharmacokinetic
8 characteristics, aren't they?

9 A. Yes.

10 Q. Then it says: This evaluation is
11 generally not possible in the postmortem period.

12 The main reason for this is that the
13 concentrations obtained from postmortem samples do not
14 necessarily reflect the blood concentrations at the
15 time of death due to variations in the concentrations
16 according to sampling site and the interval between
17 death and sampling.

18 Do you agree with that?

19 A. Yes, I do.

20 Q. And then let's go to page 535, second
21 column. It says: Redistribution from the
22 myocardium. In the living many cardiac drugs are
23 concentrated in the myocardium.

24 One of the best examples is digoxin with
25 an in vivo myocardic concentrations 30 times higher

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1 than that in heart blood.

2 Do you see that?

3 A. Yes.

4 Q. Do you agree with that?

5 A. Yes. There's data to support that.

6 That means the myocardial tissue has concentrations 30
7 times higher than blood in the heart.

8 Q. Right. And then skipping one sentence,
9 it says: Rapidly these drugs are redistributed into
10 cardiac blood in which concentrations rise
11 dramatically.

12 Do you agree with that?

13 A. Again, in general. It's a little bit
14 flowery in terms of what it's saying, but -- you know,
15 dramatically and -- yes, but certainly concentrations
16 rise. We know that.

17 MR. MORIARTY: That's all I have for
18 you, sir. Thank you.

19 THE WITNESS: You're welcome.

20 EXAMINATION

21 BY MR. MCPHAIL:

22 Q. Doctor.

23 A. Yes, sir.

24 Q. In your litigation packet.

25 A. Yes. Is there a page number that I can

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1 refer to?

2 Q. Just let me hand it to you.

3 MR. McPHAIL: Brad, will you pass that
4 to him?

5 BY MR. McPHAIL:

6 Q. That looks to me to be like a bill for
7 at least part of the NMS services provided, but I
8 didn't see anything else in the lit packet that was
9 produced. Well, that's the copy that we got, and
10 maybe it is in your complete set.

11 But should all of the billing
12 information, all of that be in the litigation packet
13 that relates to one or two -- one or the other two of
14 these work orders that you processed?

15 A. Let me explain that and then answer your
16 question, if I may.

17 This is the bill for the production of
18 the lit pack materials itself from expert services.
19 My review, as you see, spending time at no charge.
20 And so this is the copying, the shipping of the expert
21 services work.

22 Should the bill for the testing? We
23 don't normally do that, to put it in the lit pack,
24 because that's maybe confidentiality in terms of
25 different clients or whatever.

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1 But, again, if you were to request that,
2 we have no problem producing that for you.

3 Q. Okay.

4 A. And if you do wish that, just let us
5 know, and we will search out the records and produce
6 that for you.

7 Q. Is there anything else that NMS creates
8 in the way of documentation that is not in the lit
9 pack?

10 A. Well, as we started earlier when we were
11 going through the request for documents, there were
12 things like the preparation of -- let me finish --
13 preparation of the standards, certification analysis.

14 Instrument maintenance records, which we
15 have and are produced for any inspector who comes in
16 to look.

17 These are all things that -- QC charts,
18 which were brought up.

19 These are all things that we don't
20 normally put in, but we can. If anybody wants them,
21 we can provide all that information.

22 Q. Let me narrow my question.

23 A. Please.

24 Q. Is there anything in this lit pack
25 related to the Martha Johnson samples, the work done

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1 on the Martha Johnson case, any documents related to
2 Martha Johnson that's not in the Martha Johnson lit
3 pack?

4 A. No.

5 Q. That's what I was getting at.

6 A. No, there's not.

7 Q. Okay.

8 A. And I supplement it, as I gave today,
9 the things that I found when I did the review, because
10 we realized we had missed that.

11 Q. That's fine.

12 A. So, yes, there's nothing that I know of
13 specific to this case that we did not provide to you.

14 Q. Okay. You also mentioned to Ms. Ahern
15 that you were a pharmacist?

16 A. I have a pharmacy degree.

17 Q. You are not going to be offering any
18 pharmacy opinions in this case, are you?

19 A. None whatsoever. I haven't practiced
20 pharmacy in years, and I would not go there, no.

21 Q. In fact, you are not going to be
22 offering any opinions at trial that any of the
23 defendants did anything wrong here, are you?

24 A. No, sir, not at all.

25 MR. McPHAIL: Thank you.

Edward John Barbieri

November 19, 2010

1 MR. MORIARTY: I'm done.

2 You have been through this enough to
3 know your rights to read and sign the transcript or to
4 waive that right.

5 I actually prefer with all this
6 technical terminology and how fast I read those
7 article excerpts that you read and sign, okay?

8 THE WITNESS: Boy, that will be dull
9 reading.

10 MR. MILLER: Doctor, you can do what you
11 want.

12 THE WITNESS: To be honest, it's going
13 to be a lot of time.

14 MR. MORIARTY: If you don't want to read
15 and sign. It's your right, not mine.

16 THE WITNESS: No. If we find an issue,
17 I will correct it later, but I'm going to waive it.

18 MR. MORIARTY: Stay on the record,
19 because the only thing we still need to get copied and
20 made into an exhibit is the lit pack for the blood
21 specimen.

22 THE WITNESS: Okay. This lit pack was
23 sent to -- was sent to the requesting agency, that
24 would be the Analytical Research Lab. So we can
25 produce another copy for you, not a problem.

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1 MR. MORIARTY: That's fine.

2 THE WITNESS: Okay.

3 MR. MORIARTY: I have Exhibit 2, which
4 is apparently not a complete lit pack of both
5 specimens. So I just need the lit pack for --

6 THE WITNESS: So that's for the blood
7 work, okay, so you need a copy of that.

8 MR. MORIARTY: And I would just suggest
9 that that be made Exhibit 13 once it gets produced.
10 Is that okay with you?

11 MR. MILLER: I don't care, that's fine.

12 THE WITNESS: As long as everybody's
13 okay, we are going -- because this is going to be
14 copied, it's going to be paginated with the
15 handwritten material on it.

16 MR. MORIARTY: Sure.

17 THE WITNESS: Written numbers.

18 And there are 50-some pages, and I think
19 there's a certification with that.

20 MR. MORIARTY: Fifty-seven pages.

21 THE WITNESS: Right. And I do have a
22 certification, so I'll make a copy of that as well.

23 MR. MORIARTY: Okay.

24 (Exhibit No. Barbieri 13, Litigation
25 Support Package, WO# 08232082, marked for

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1 identification.)

2 (Deposition concluded at 1:16 p.m.)

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Edward John Barbieri

November 19, 2010

1 CERTIFICATION
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5 I, JANICE D. BURNESS, Registered
6 Professional Reporter, Certified Shorthand Reporter,
7 certify that the foregoing is a true and accurate
8 transcript of the foregoing deposition, that the
9 witness was first sworn by me at the time, place and
on the date herein before set forth.

10 I further certify that I am neither attorney
11 nor counsel for, not related to nor employed by any of
12 the parties to the action in which this deposition was
13 taken; further, that I am not a relative or employee
14 of any attorney or counsel employed in this case, nor
15 am I financially interested in this action.

16

17

18

19 -----
20 JANICE D. BURNESS
REGISTERED PROFESSIONAL REPORTER
CERTIFIED SHORTHAND REPORTER
(NJ) XI00225900
21 NOTARY PUBLIC

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